300(12) mîn. Class SI Concrete Cap Manyarahanin manyarahanin -Cap block Pourous Granular Modular Retaining Backfill Wall System (CA16) 00000000000

INSTALLATION AT MODULAR RETAINING WALL

500(20)

mîn.

Pourous

Granular Backfill (CA16)

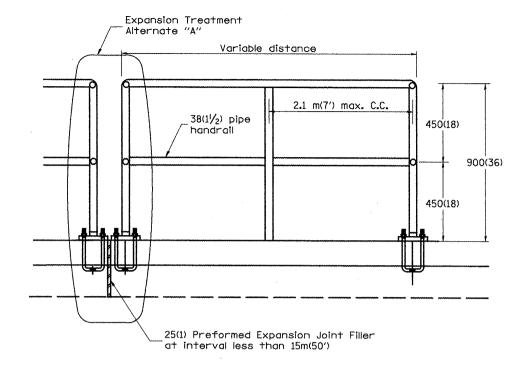
INSTALLATION AT

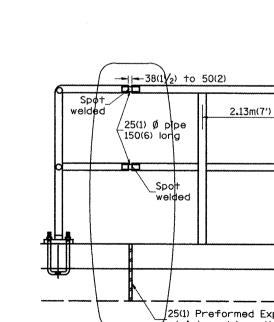
MORTARED STONE WALL

300(12) min.

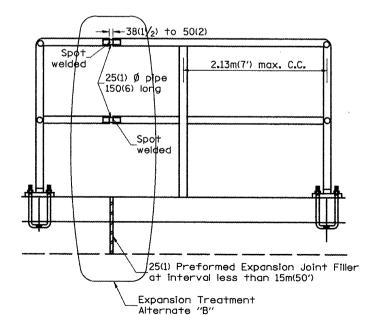
Class SI Concrete Cap-

Mortared Stone





PIPE HANDRAIL



146(53/4) 250(10) 15(5%) Ø-50 (2) BUILT-IN ANCHOR BOLT  $M16(\frac{5}{8})$  DIA., 300(12) LONG (See Note No. 3)

## CAST IRON OR STRUCTURAL STEEL FITTING

## GENERAL NOTES

1. Article 510.03 of the Standard Specifications shall apply.

\_\_\_\_\_ 13(½) S.S. (+yp.)

- 2. Connection of railing to posts shall be made by continuous welding or with using standard pipe fitting.
- 3. An equivalent epoxy anchor stud can be used in place of anchor shown. Anchor bolt holes shall be 125(5) deep x  $20(\frac{3}{4})$  Ø to be pre-drilled with an electric hammer drill to a depth of 25(1) prior to use of a pnuematic drill for the remaining 100(4). A two component encapsulated epoxy such as "Parabond" or an equivalent shall be used. installation shall be according to Manufacturer's recommendations.
- 4. The pipe handrail shall be galvanized by the hot dip process.
- 5. It is Contractor's option to choose the expansion treatment "A" or "B". The spot welded area shall be painted to the satisfaction of the Engineer. This work shall be included in the contract unit price for Pipe Handrall.

All dimensions are in millimeters (inches) unless otherwise noted.

SECTION COUNTY 399 36R-1, (37R-2) TAZEWELL 449 259

TO STA.

FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT CADD STANDARD DATE REVISIONS
1-1-97 RENUM. B-11.02, METRICS, REVISED
TITLE, NEW REVISION BOX, REVISED DETAIL OF PIPE HANDRAIL FOR MORTARED STONE WALL & MODULAR RETAINING WALL CADD STANDARD 510101-D4 DRAWN BY CADD SCALE. DATE SEDATFES CHECKED BY

\*DGN-ONLY\*

510101-D4